Industrial Temperature Calibrators

Fast-Cal

- 25 x 148mm Calibration Volume
- Rugged
- Lightweight
- Easy to use on Site

Fast-Cal - the product range you designed!

During early 2004, 20 experienced engineers from many parts of the world were asked to produce their ideal specification for industrial calibration. Their top ten requirements, in order of priority, are: Rugged, Lightweight, Easy to use on site, Low cost/high benefit ratio, Fast response, high stability, Time saving features, Multiple sensor testing, Software, Modern design, Compliant with the latest regulations.

One model is ideal for the validation of Washer Disinfectors, Steam Sterilisers and Autoclaves. In place of a removable insert it has a fixed block with pockets for a reference probe and the type of test sensor commonly used in validation applications.

Fast-Cals are available in Basic or Complete models

- A Basic Dry Block Calibrator
  The thermometer under test is compared to the dry block controller value. Useful for moderate temperature ranges and quick testing.

- An ISO 9000 Calibration System
  A thermometer under test is compared to a calibrated standard, for true traceability and clearly meets the requirements of ISO9000. Complete models include a semi-standard probe.
### Calibration Solutions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>HTM 2010</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range at 20°C</td>
<td>-35 to +140°C</td>
<td>-35 to +140°C</td>
<td>30 to 350°C</td>
<td>35 to 650°C</td>
</tr>
<tr>
<td>Stability</td>
<td>0.02°C</td>
<td>0.02°C</td>
<td>±0.3°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Accuracy - Basic</td>
<td>±0.2°C</td>
<td>±0.2°C</td>
<td>±0.3°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Accuracy - Complete*</td>
<td>±0.15°C</td>
<td>±0.15°C</td>
<td>±0.2°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Heating Time</td>
<td>-30 to +140°C in 15 minutes</td>
<td>-30 to +140°C in 15 minutes</td>
<td>50 to 350°C in 15 minutes</td>
<td>50 to 650°C in 20 minutes</td>
</tr>
<tr>
<td>Cooling Time</td>
<td>+140 to 0°C in 15 minutes</td>
<td>+140 to 0°C in 15 minutes</td>
<td>350 to 100°C in 40 minutes</td>
<td>650 to 300°C in 20 minutes</td>
</tr>
<tr>
<td>Calibration Capacity</td>
<td>145mm depth</td>
<td>148mm depth</td>
<td>148mm depth</td>
<td>148mm depth</td>
</tr>
<tr>
<td>Power</td>
<td>150W</td>
<td>150W</td>
<td>750W</td>
<td>750W</td>
</tr>
<tr>
<td>Traceable Certificate</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>UKAS Certificate</td>
<td>Extra</td>
<td>Extra</td>
<td>Extra</td>
<td>Extra</td>
</tr>
<tr>
<td>PC Communications</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Software</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>4-20mA Input</td>
<td>Complete Models</td>
<td>Complete Models</td>
<td>Complete Models</td>
<td>Complete Models</td>
</tr>
<tr>
<td>Ramps and Dwell</td>
<td>Yes with Software</td>
<td>Yes with Software</td>
<td>Yes with Software</td>
<td>Yes with Software</td>
</tr>
<tr>
<td>Dimensions</td>
<td>228 x 248 x 143mm</td>
<td>228 x 248 x 143mm</td>
<td>228 x 248 x 143mm</td>
<td>228 x 248 x 143mm</td>
</tr>
<tr>
<td>Weight</td>
<td>6.60kg</td>
<td>6.60kg</td>
<td>6.35kg</td>
<td>6.35kg</td>
</tr>
</tbody>
</table>

*When used with a suitable Isotech Semi Standard PRT.

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### How To Order

Specify Model, Basic or Complete, Supply Voltage, Accessories and if UKAS Calibration is required.

### Features (Basic & Complete)

<table>
<thead>
<tr>
<th>Feature</th>
<th>HTM 2010</th>
<th>LOW</th>
<th>MEDIUM</th>
<th>HIGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rugged, hard-wearing stainless steel case</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Hygienic with no paint to chip or flake</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>No membrane keypads</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lightweight - less than 6.6kg</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Thermal Switch Test - Complete Model with Software</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Carrying Case included</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Easy to use on site, effortless transporting</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Fast response - high stability</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Built-in insert holder for ultra fast changes and restarts</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Removable inserts, drilled to your requirements</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>PC interface</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Additional software available for automatic calibration</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Certificate traceable to National Standards</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Five point UKAS Certification available</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mains power variance immunity</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Note: The complete model can capture a thermostat trip temperature either as a stand alone unit or with a PC and the included software.

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### Low, Medium & High

**Standard Insert** is:

2 x 4.5mm + 1 x 6.5mm x 140mm Deep.

All Inserts have a 4mm tapped hole to suit supplied extractor tool.

### Extra Inserts

In addition to the standard insert, specially drilled or blank inserts are also available.

#### Low & Medium

- **Standard**: 907-02-03
- **Custom**: 907-02-03c
- **Blank**: 907-02-03b

#### High

- **Standard**: 907-02-03d
- **Custom**: 907-02-03g
- **Blank**: 907-02-03f

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### HTM2010 Fixed Block

3 x 4.5mm + 1 x 6.5mm + 1 x 8mm x 145mm Deep.